

Title (en)

INTERNAL COMBUSTION ENGINE COMPRISING AN ELECTROMAGNETIC ACTUATOR WHICH IS SITUATED ON A CYLINDER HEAD

Title (de)

BRENNKRAFTMASCHINE MIT EINEM ELEKTROMAGNETISCHEN, AUF EINEM ZYLINDERKOPF ANGEORDNETEN AKTOR

Title (fr)

MOTEUR A COMBUSTION INTERNE COMPRENANT UN ACTIONNEUR ELECTROMAGNETIQUE PLACE SUR UNE CULASSE

Publication

**EP 1334263 B1 20060614 (DE)**

Application

**EP 01996673 A 20011023**

Priority

- DE 10056572 A 20001115
- EP 0112229 W 20011023

Abstract (en)

[origin: WO0240834A1] The invention relates to an internal combustion engine, comprising an electromagnetic actuator for operating a gas exchange valve, this actuator being situated on a cylinder head. Said actuator comprises a switchable electromagnet which is situated between two armatures. Said armatures are axially set apart on a common armature shaft. The invention provides that a cavity is configured in the cylinder head, in which the actuator armature on the cylinder head side is at least partially accommodated, and that the electromagnet at least partially delimits the cavity on the actuator side. This results in a compact internal combustion engine.

IPC 8 full level

**F01L 9/20** (2021.01)

CPC (source: EP US)

**F01L 9/20** (2021.01 - EP US)

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

**WO 0240834 A1 20020523**; DE 10056572 A1 20020523; DE 50110175 D1 20060727; EP 1334263 A1 20030813; EP 1334263 B1 20060614; JP 2004514085 A 20040513; JP 4029036 B2 20080109; US 2004020451 A1 20040205; US 6889638 B2 20050510

DOCDB simple family (application)

**EP 0112229 W 20011023**; DE 10056572 A 20001115; DE 50110175 T 20011023; EP 01996673 A 20011023; JP 2002543131 A 20011023; US 41672603 A 20030514